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DuPont
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May 6, 1996

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Office of Pollution Prevention and Toxics
Environmental Protection Agency
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Washington, D.C. 20460

Attn: 8(d) Reporting

[OPPTS-82048; FRL-4996-9]

In response to the subject final rule published in the Federal Register on February 28, 1996 (61FR7421), I am submitting on behalf of E. I. du Pont de Nemours & Company, Inc. the enclosed health and safety studies under the TSCA Section 8(d) Health and Safety Data Reporting Rule.

These studies are submitted with no confidentiality claims. For those studies covering several chemicals all references to non-8(d) regulated chemicals have been deleted from the reports as well as any personal names mentioned in the report. If you have any questions regarding this submission, please contact me at 302-999-4619.

Very truly yours,

Sharron Laas, Ph.D.
Regulatory Affairs

SRL/gbc
E-Mail-SRL27-96
Attachment: Index of Submission
Enclosure: 3 Study Reports

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Rec'd 5-15-48

May 6, 1948

DR.
PLASTICS DEPARTMENT
ARLINGTON

TOXICITY OF AND OCTYL PHENOL

In accordance with your request of January 9, 1948, forwarded through Dr. E. W. Probst, we have investigated the acute and chronic oral toxicity of _____ and of Octyl Phenol and have tested them for skin irritancy and sensitization on guinea pigs. We did not test the modified chlorinated polythene film on animals because of previous information that chlorinated polythene itself is inert, and we, therefore, felt that your question about the toxicity of chlorinated polythene film modified with _____ and Octyl Phenol could best be answered by studying the toxicity of the ingredients themselves. The results of our tests were as follows:

I.



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II. OCTYL PHENOL

The Minimum Fatal Dose (MFD) of Octyl Phenol by mouth was found to be 5000 mg/kg for rats.

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Six rats were each given 1000 mg/kg/day by mouth. One rat died after the third treatment, four died after the fourth treatment, and the survivor was killed for post mortem examination after the fourth treatment. Pathological findings were gastrointestinal irritation and some congestion of the lungs.

Six rats were each given 150 mg/kg/day by mouth, five days a week, for a total of ten treatments. All rats survived without signs of toxicity. No pathology was found when the animals were sacrificed two weeks after the last treatment.

The effect of Octyl Phenol on the skin was tested on eight guinea pigs. Application of a 2% solution of Octyl Phenol in peanut oil to the clipped skin caused moderate irritation. Sensitization was attempted with a 1% solution in peanut oil using the scratch test technique, but the results were negative.

III. Discussion

Neither Chlorinated Polythene or Octyl Phenol are highly toxic by mouth. A 2% solution of Octyl Phenol in peanut oil both cause moderate primary irritation of guinea pig skin, but we were unable to produce allergic sensitization with either compound. One per cent suspensions or solutions were not irritant, even to scratched skin.

From the toxicity point of view, chlorinated polythene film modified with Octyl Phenol (0.2%) would appear to be safe for the packaging of foodstuffs. We should like to remind you, however, that tests should be conducted to determine whether any detectable amount of Octyl Phenol could be extracted by any kind of foodstuff packaged therein. If so, the Food and Drug Division or Meat Inspection Division of the Bureau of Animal Industry would probably demand evidence of non-toxicity, and our preliminary tests would not be regarded as sufficient for this purpose.

HASKELL LABORATORY OF
INDUSTRIAL TOXICOLOGY

, M. D.
Director

BY: , Ph.D.
Assistant Director



CERTIFICATE OF AUTHENTICITY

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